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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25613-2010

Replacing GB/T 16710.3-1996

**Earth-moving machinery -- Determination of emission sound
pressure level at operator position -- Stationary test conditions**

土方机械 司机位置发射声压级的测定 定置试验条件

(English Translation)

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Foreword

This standard is identical with ISO 6394:2008 "moving machinery - Determination of emission sound pressure level position of set test conditions" (English Chinese Version).

This standard is equivalent translation ISO 6394:2008.

For ease of use, the standard ISO 6394:2008 made the following editorial changes.

- The "this International Standard" be replaced by "this standard";
- Instead of as a decimal by decimal points "and", ".";
- Delete foreword international standards;
- To ISO 6394:2008 international standard referenced with international standards have been adopted in place of the corresponding standard;
- GB/T 14574-2000 and GB/T 17248.1-2000 moved from the reference to Chapter 2 normative references.

This standard is GB/T 16710.3-1996 "driver position of noise machinery - Stationary test conditions of determination," the amendment.

This standard compared with GB/T 16710.3-1996, the main changes are as follows.

- Standard name by the "Driver position of noise machinery - Stationary test conditions of determination" to "position moving machinery Determination of emission sound pressure levels of set test conditions ";
- Increased introduction, and references Appendix A;
- Expanding the applicable standards earthmoving machinery type.

Original standard applies to four types of machines. excavators, bulldozers, loaders,

backhoe loaders.

Now the machine is applicable for the 11 categories. bulldozers, loaders, backhoe loaders, excavators, dump trucks, scrapers, motor grader, pipelayer Machine, trencher, landfill compactors, rollers.

--- State of the driver, is now the standard by driving and walking machines operated machines were provisions;

--- Modify the air conditioning and/or pressurized ventilation system operating speed gear used during the test;

--- Information recording and reporting of information, increasing the fan speed and so on;

--- Marking an increase of acoustic emission values and uncertainty.

This standard replaces GB/T 16710.3-1996.

Appendix A of this standard is a normative appendix.

The standard proposed by China Machinery Industry Federation.

This standard by the national earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

Introduction

This standard is specific testing procedures for earth-moving machinery GB/T 8498 definition. It is GB/T 17248.2 expansion, GB/T 17248.2 it contains many types of machinery and equipment General requirements.

Special testing procedures of this standard provides specific test procedures can be set in a given test conditions, the working conditions in a repeatable measurement driver A time-weighted average sound pressure level position. Manufacturer's product should be fitted with attachments (buckets, blades, etc.), these attachments are in actual use, the machine most likely configuration.

The standard machine can be used to determine compliance with noise limits, noise reduction can also be used to evaluate the study.

GB/T 25612 "Determination of sound power levels of earthmoving machinery set-test conditions" as another supplementary testing procedures, this special test regulations Cheng used to determine test conditions in a given set of noise emitted by earth-moving machinery A-weighted sound power level.

GB/T 25614 "Earth-moving machinery - Determination of sound power level - Dynamic test conditions" and GB/T 25615 "moving machinery position Determination of emission sound pressure levels Dynamic test conditions "were provided for under dynamic test conditions, environmental noise emission and noise at the location of the driver the respective

measurement methods.

Earthmoving machinery the driver position emission sound pressure level measurement
Stationary test conditions

1 Scope

This standard specifies the machine set-up does not move, the rated engine speed empty load operation conditions, time position moving machinery the average A-weighted sound pressure level emitted measurement method.

This standard applies to GB/T 8498 defined and GB/T 25612-2010 "Determination of sound power levels of earthmoving machinery set-test Test conditions "specified in Appendix A of earthmoving machinery.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8420 moving machinery physical dimensions of operators and minimum operator space (GB/T 8420-2000, eqv ISO 3411:1995) GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT)
GB/T 14574-2000 Acoustics Declaration and verification of noise emission values
GB/T 16936 earthmoving machinery and equipment of (eqv ISO 4871:1996) GB/T 16936 earthmoving machinery net engine power test specification (GB/T 16936-2007, ISO 9249:1997, MOD) Noise determination Job Location GB/T 17248.1-2000 Acoustics emitted by machinery and equipment and other specified positions emission sound pressure Basis of standard grade Guidelines for the use (eqv ISO 11200:1995) GB/T 17248.2 Acoustics machinery and equipment noise emission and other operating positions specified position measuring emission sound pressure levels A reflecting plane free field engineering method (GB/T 17248.2-1999, eqv ISO 11201:1995) GB/T 25612-2010 moving machinery - Determination of sound power levels of set test conditions (ISO 6393:2008, IDT) IEC 61672-1 electrical acoustic sound level meters - Part 1. Specification

3 Terms and Definitions

GB/T 17248.2 and GB/T 8498 and established the following terms and definitions apply to this standard.

Time average A-weighted sound pressure level

time-averaged A-weighted sound pressure level $L_{pA, T}$ Over the entire measurement time T ,
A-weighted sound pressure level by averaging the energy.

4 Instrument

The instrument should be able to be measured according to the provisions of Chapter 8.
Instruments data acquisition system should be preferred in compliance with IEC 61672-1
Class 1 to Seek points average sound level meter.

5 Test Environment

The test environment uses standard GB/T 25612 "Determination of sound power levels of
earthmoving machinery set-test conditions" specified.